APR 2 2 2005

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703-872-9306

REMARKS: Serial No. 10/608,734, filed June 27, 2003

Attached hereto is a Response To Office Action Mailed March 8, 2005

Total Number of Pages (Including This One): Fifteen (15)

FROM: Daniel J. Krueger, Direct Dial No. 713/238-8055

DATE: April 22, 2005

ATTORNEY DOCKET NO. 2149-00300

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Chost the Padelwork Adultion Act of Tass	MO DELISORS	Application Number	10/608,734				
TRANSMITTAL	Filing Date	June 27, 20	June 27, 2003				
FORM		First Named Inventor	Arthur E. B.	Arthur E. BARNES			
		Art Unit	2863				
in the second se	Elimal	Examiner Name	T.S. Lau				
(to be used for all correspondence after initial	15	Attorney Docket Number	2149-00300				
Total Number of Pages in This Submission							
	ENCI	LOSURES (Check al	i that apply,	)			
Fee Transmittal Form Fee Attached  Amendment/Reply		Drawing(s)  Licensing-related Papers  Petition		After Allowance Communication to  Appeal Communication to Board of Appeals and Interferences  Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)			
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Affidavits/declaration(s)		Power of Attorney, Revocate Change of Correspondence			Status Letter		
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Certifled Copy of Priority Document(s)  Reply to Missing Perts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53	Rema	rks					
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Firm Name							
CONLEY ROSE, P.C.							
Signature							
Printed name Daniel J. Krueger							
Date April 22, 2009		Reg. No.	42,771				
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I hereby certify that this correspondence is to sufficient postage as first class mail in an er the date shown below:	peing facs velope ac	simile transmitted to the USP ddressed to: Commissioner f	TO or depos or Patents, I	sited with P.O. Box	the Un : 1450, /	ited States Postal Service with Alexandria, VA 22313-1450 on	
Signature	Signature AMA & HASI						
Typed or printed name Jennifer Ringer					Date	April 22, 2005	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Tradiment Office. U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Effective on 12/08/2004.	Complete if Known						
Fees pursuant to the Consolidated Appropriations Act. 2005 (H.R. 4818)	Application Number 10/608,734						
FEE TRANSMITTAL	Filing Date	June 27, 2003					
For FY 2005	First Named Inventor		rthur E. BARNES				
	Examiner Name	T. S. Lau					
Applicant claims small entity status. See 37 CFR 1.27	Art Unit	2863					
TOTAL AMOUNT OF PAYMENT (\$) 1000	Attorney Docket No.	2149-003	00				
METHOD OF PAYMENT (check all that apply)							
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For the above-identified deposit account, the Director is it	nereby authorized to: (chec	k all that appl	y)				
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Design 200 100 10	0 50	30 65					
Plant 200 100 30		60 80		<del></del>			
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for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(0) and 37 CFR 1.10(8).							
Total Sheets Extra Sheets Number of each additional 50 or fraction thereof ree (1)							
4. OTHER FEE(S)							
Non-English Specification, \$130 fee (no small entity discount)							
Other:							
SUBJAIT ED BY	Registration No. 42,7	71	Telephone (71	13) 238-8000			
Signature (Attomet/Agent) 42,771				Date April 22, 2005			

This collection of information is required by 37 CFR 1.138. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gethering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the anitorial of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent on the anitorial of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Effective on	12/08/2004		Complete if Known			
Fees pursuant to the Consolidated At	opropriations Act, 2005 (H.R. 481		10/608,734			
FEE TRA	NSMITTAL	Filing Date	June 27, 2003			
	Y 2005	First Named Inventor	Arthur E. BARNES			
		Examiner Name	T. S. Lau			
Applicant claims small entity	status. See 37 CFR 1.27	Art Unit	2863			
TOTAL AMOUNT OF PAYMENT	(\$) 1000	Attorney Docket No.	2149-00300			
METHOD OF PAYMENT (che	eck all that apply)					
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Deposit Account Deposit		Deposit Account	Name: CONLEY ROSE	E, P.C.		
For the above-identified d	eposit account, the Director	is hereby authorized to: (che	ck all that apply)			
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FEE CALCULATION						
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Į Fi	ILING FEES S Small Entity	Small Entity	Small Entity	Fore Bold (\$)		
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Design 2	00 100	100 00	30 65			
Plant 2	100	300 130	160 80			
Reissue 3	00 150	200 250	300			
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for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.10(5).						
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4. OTHER FEE(S)  Non-English Specification, \$130 fee (no small entity discount)						
Other:						
SUBMITTED BY		Registration No. 42,	771 Telephone	(713) 238-8000		
Signature	1/2	(Attorney/Agent) 42,		<u></u>		
Name (Print/Type) Daniel J. K	ndeger		Date April	22, 2005		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USFTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This conjection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the confidence of the process of the Chief Information Officer, U.S. Patent on the amount of time you require to complete this form and/or suggestions for reducing this benefit, should be sent to the Chief Information Officer, U.S. Patent on the amount of time you require to complete this form and/or suggestions for reducing this benefit, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450 (Aexandre) VA 128 181450. DOI: OT SEND FEES OR COMPLETED FORMS TO THIS and Trademark Office, U.S. Department of Commerce, P.O. Box 1450 (Aexandre) VA 128 181450. DOI: OT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1500 (Aexandre) VA 128 181450. DOI: OT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1500 (Aexandre) VA 128 181450. DOI: OT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1500 (Aexandre) VA 128 181450. DOI: OT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1500 (Aexandre) VA 128 181450. DOI: OT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

### APR 2 2 2005

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Arthur E. BARNES

Confirmation No.:

7757

Serial No.:

10/608,734

Group Art Unit:

2863

Filed:

June 27, 2003

Examiner:

Tung S. LAU

For:

Measuring Discontinuity

8

Atty. Docket No.:

2149-00300

In Seismic Data

Client Ref No.:

2003-IP-011636

#### **RESPONSE TO OFFICE ACTION OF MARCH 8, 2005**

Commissioner for Patents P.O. Box 1450 A exandria, VA 23313-1450 April 22, 2005

Dear Sir:

This paper is submitted in response to the above-named office action to further highlight why the application is in condition for allowance. In response to the Office Action of March 8, 2005, please amend the above-identified application as follows:

Amendments to the Claims begin on page 2 of this paper.

Remarks begin on page 10 of this paper.